





VIRGINIA TREES

for Virginia Landowners



Seedling Catalog 2010-2011



**Virginia
Department of Forestry**

Order On-Line

www.BuyVirginiaTrees.com



Why Are Virginia Trees Your Best Choice?

The Virginia Department of Forestry has been growing seedlings for Virginia landowners for 93 years. When you put your money in the ground in the form of seedlings, you need to start with the best stock available; stock suited for Virginia soils and climate. The cultural practices that we use in growing seedlings in our seedbeds are based on more than 40 years of research and experience in quality production.

In addition to the wide selection of bare-root seedlings, we also offer specialty seedling packs and seed mixtures suitable for various wildlife habitats, screening, use in wetland areas and for erosion control. Our seedlings are sold directly from the seedbed without replanting, and seedling age is indicated with 1-0, 2-0 and 3-0 (one-, two- and three-year-old).

This Seedling Price Catalog provides pricing for nearly 40 species of seedlings that have been grown at one of Virginia's two State Forestry Centers: the Augusta Forestry Center, near Waynesboro, and the Garland Gray Forestry Center near Littleton. For other conservation/reforestation projects, contact your area forester. All orders made from this catalog or on-line will be shipped from the Augusta Forestry Center via United Parcel Service delivery.

Membership

The Virginia State Nurseries are proud to be a member of The Cooperative Tree Improvement Program at North Carolina State University. The mission of the Cooperative is to economically increase forest productivity through the genetic manipulation of loblolly pine populations. Enhanced productivity through breeding, selecting and deploying superior loblolly pine families is a major goal of the Cooperative.

Benefits of Virginia Tree Improvement Research

- ✦ Due to the cooperative sharing of genetic material, all of the best families that are suitable for Virginia are in our program.
- ✦ Selections have continuously placed extra emphasis on properties desirable for solid wood products (straightness, crown characteristics).
- ✦ Some families from other provenances and cold hardiness zones either fail in Virginia or perform erratically.

Advantages of Our Genetically Improved Loblolly Pine

- ✦ Improved genetics for fast-growing, straight and disease-resistant seedlings.
- ✦ Loblolly Pine Premium shows a 35 percent gain in growth and yield over unimproved seedlings.
- ✦ Loblolly Pine Elite shows a 45 percent gain in growth and yield over unimproved seedlings.
- ✦ Increased profits from improved growth.
- ✦ Our seedlings go completely dormant for shipping, and fully dormant seedlings withstand shipment and planting significantly better than non-dormant seedlings.
- ✦ We top clip our seedlings, which controls the shoot/root ratio contributing to excellent survival rates.
- ✦ Limited supply due to scarcity of seed.

Cost-Share Programs Available for Forest Landowners

Reforestation of Timberlands Program (RT)

The Virginia legislature authorized the Reforestation of Timberlands Program (RT) in 1970 as a financial incentive for private landowners to plant pine seedlings in response to over-harvesting of pine timber. Funds for the program come from two sources: forest industry and the Commonwealth. The industry pays into the fund through a self-imposed severance tax when timber is harvested. This money is matched with General Revenue funds. The Virginia Department of Forestry's field offices located throughout the state administer the program.

Landowners approved for RT incentive payments carry out reforestation activities, ensuring well-stocked, fast-growing pine plantations. Program benefits include:

- ✦ Up to 100 acres of cost-share assistance, or as little as one acre per planting project.
- ✦ The VDOF offers genetically improved pine seedlings, which tests reveal are producing 20 percent to 45 percent greater volume growth than wild trees, with compact crowns and stem quality for excellent sawtimber production. Growth varies depending on site conditions and management.
- ✦ Continuing commitment of the VDOF field forestry staff to help landowners protect, and manage the plantation to meet their objectives.
- ✦ VDOF assistance in helping landowners find contractors for site preparation, planting, herbicide applications, thinning and wildlife habitat enhancement.

Farm Bill Programs

The 2008 Farm Bill includes a number of cost-share and assistance programs for forest landowners to help them improve the soil and water quality on their land through improving forest health, sustainability, and by providing multiple environmental benefits through the long-term growth of their forest. These Farm Bill programs are available in Virginia through a cooperative effort of the USDA Natural Resources Conservation Service (NRCS) and Virginia Department of Forestry (VDOF). Several of the primary programs are summarized below.

Environmental Quality Incentives Program (EQIP)

This program provides technical assistance and cost-share to eligible landowners for forestry practices, such as site preparation and planting of hardwood and pine trees; fencing to keep livestock out of the forest; forest road stabilization; timber stand improvement (TSI), and invasive species control. Priority is given to projects with multiple management practices to be completed over a number of years.

Wildlife Habitat Improvement Program (WHIP)

This program provides technical assistance and cost-share to eligible landowners who install wildlife habitat improvement practices on their land. These practices may include tree and shrub planting, prescribed burning, invasive species control, creation of forest openings, riparian buffer establishment and fencing livestock from the forest.

Wetlands Reserve Program (WRP)

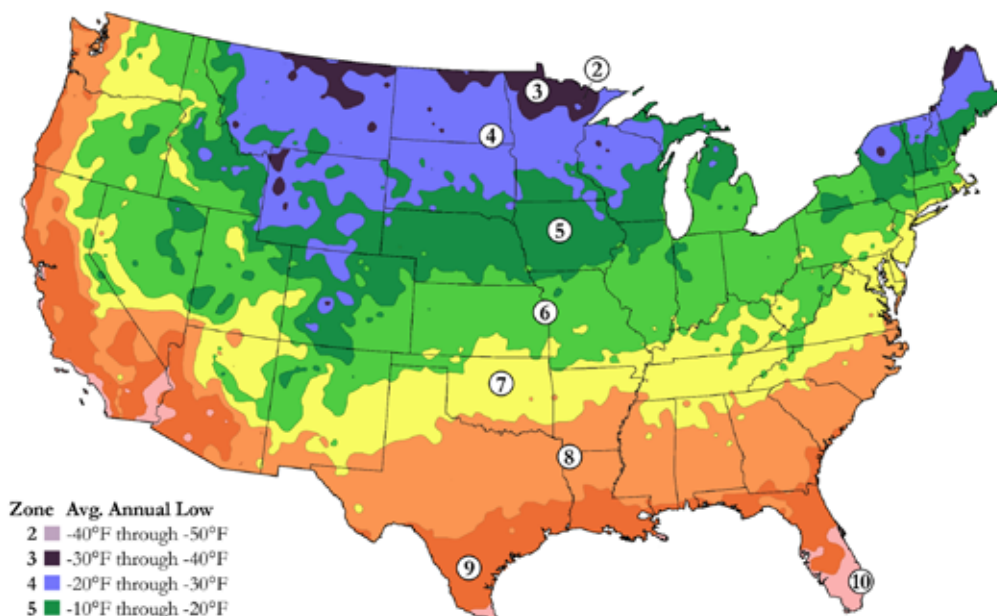
This program provides technical and financial assistance to eligible landowners who restore, enhance and protect wetlands on their property. Landowners are paid for temporary or permanent easements to protect the wetlands.

Are You Eligible For Assistance?

Check with your local VDOF forester or your local United States Department of Agriculture (USDA) Service Center to learn about programs that may be available to assist you in managing and conserving your forest resources.



2006 arborday.org Hardiness Zones Map



Zone	Avg. Annual Low
2	-40°F through -50°F
3	-30°F through -40°F
4	-20°F through -30°F
5	-10°F through -20°F
6	0°F through -10°F
7	10°F through 0°F
8	20°F through 10°F
9	30°F through 20°F
10	40°F through 30°F

Go to arborday.org
to find the zone for your zip code.
You can also find trees for planting in your zip code.
© 2006 by The National Arbor Day Foundation®

Virginia State Tree Nurseries

Augusta Forestry Center

The center is located in Augusta County on 178 acres adjacent to the South River. Nearly 40 species of Virginia hardwoods and softwoods are grown in seedbeds covering 100 acres. This center handles the Department's delivery program, which offers tree seedlings, conservation specialty packs and conservation seed mixtures.

1 Forestry Center Lane
P.O. Box 160
Crimora, VA 24431-0160
Phone: (540) 363-5732
Fax: (540) 363-5055
Email: Brenda.Taylor@dof.virginia.gov
Nursery Forester: Joshua McLaughlin

Garland Gray Forestry Center

The center is located next to the Nottoway River, which provides irrigation for 80 acres of loblolly pine seed beds. The sandy soils at this nursery are ideal for pine seedling production. A 213-acre tree seedling nursery was established within the boundaries of the Garland Gray Forestry Center in 1984. Garland Gray Forestry Center has state-of-the-art harvesting equipment and a first-class grading, packaging and cold storage facility for preparing the loblolly tree seedlings for shipment.

Garland Gray Forestry Center
19127 Sandy Hill Road
Courtland, VA 23837
Phone: (804) 834-2855
Fax: (804) 834-3141
Nursery Forester: Dwight Stallard

Hours of Operation

Monday through Friday
8 a.m. – 4:30 p.m.



**FOR QUESTIONS
OR TO ORDER SEEDLINGS, CONTACT:**

**Augusta Forestry Center
(540) 363-7000
P.O. Box 160, Crimora, VA 24431**

**ORDER ON-LINE AT
www.BuyVirginiaTrees.com**

To Place an Order

- ◆ Orders are accepted from early-October to mid-April.
- ◆ Order on-line at www.BuyVirginiaTrees.com; by phone at (540) 363-7000, or by mail using the attached order form.
- ◆ Payment in full is required at time of order.

Shipping and Handling

- ◆ Seedlings are available for pick-up or delivery from January to mid-April depending on weather conditions.
- ◆ Pick-up is available at the Augusta Forestry Center free-of-charge.
- ◆ Shipping charge is 30 percent of the order total with a minimum shipping charge of \$15.
- ◆ Specify a desired shipment date when placing order.
- ◆ All UPS orders are shipped from the Augusta Forestry Center on Mondays, Tuesdays and Wednesdays.
- ◆ **Tax-exempt orders cannot be made on-line through the web store.**
 - ◆ Virginia sales tax is 5 percent. Tax-exempt entities must furnish a tax exemption certificate.





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Key to Symbols

- ☀ - Full Sun
- ◐ - Sun/Part-Shade
- - Shade Tolerant
- △ - Christmas Tree Species







Species (Scientific Name)	Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
						10	25	50	100	250	500	1000
 Janet Muncy, VDOF  Janet Muncy, VDOF	★	★	★		8 - 16 in.	\$20	\$45	\$75	\$115	\$150	\$220	\$290
Ash, Green 1-0 ✦ <i>(Fraxinus pennsylvanica)</i> Zone 3-9 ☀️ Green ash reaches a mature size of 60 to 70 feet in height and 1 ½ feet in diameter. It grows in moist river bottoms and along stream banks. The wood is heavy, hard, rather strong, brittle and coarse-grained, light brown, with a rather broad layer of lighter sapwood. It is marketed with white ash and used for tool handles, baseball bats, rough lumber, pulpwood, veneer, crates and boxes. Many birds and mammals eat the seeds and deer browse the foliage. Green ash is commonly planted as a shade tree.												
 Courtesy of Smithsonian Institution  Gregg O'Donnell, VDOF	★		★		6 - 14 in.	\$20	\$45	\$75	\$115	\$150	\$220	\$290
Birch, River 1-0 <i>(Betula nigra)</i> Zone 3-9 ☀️🌑 River birch reaches a mature size of 70 to 80 feet in height and 1 to 3 feet in diameter. Seldom harvested, it has been used in the manufacturing of inexpensive furniture, toys, basket hoops and turned articles. It is commonly planted for stream bank restoration and other erosion control situations. It is also an attractive ornamental tree. It is the only birch native to the Coastal Plain in the southeastern United States. Its habitat includes deep, rich soils on stream banks, pond and swamp edges.												



Species (Scientific Name)	Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
						10	25	50	100	250	500	1000
Fir, Canaan 3-0 <i>(Abies balsamea var. phanerolepis)</i> Zone 3-6 ☀️🌑🌿 Canaan fir is an attractive medium-sized tree generally reaching 40-55 feet in height and 20-25 feet in width. It exhibits a relatively dense, pyramidal crown with a slender spire-like tip that often imparts a formal appearance. Foliage color is lustrous dark green to bluish green with silvery stomatic bands on the underside of the needles. An important asset of Canaan fir is its ability to grow in areas not well suited to other native firs. While Canaan fir will tolerate soils with less than perfect drainage, it performs best in deep, well-drained loam with ample moisture. In recent years, considerable interest has developed in using Canaan fir as a Christmas tree species. It can also be used for screening, group planting, and as an accent plant.			★		4 - 8 in.	\$20	\$45	\$50	\$65	\$80	\$100	\$150
 Fir, Douglas 3-0 <i>(Pseudotsuga menziesii)</i> Zone 4-6 ☀️🌑🌿 Our 3-year-old Douglas fir reaches a mature height of 40-60 feet in landscaping and 150 feet plus in nature. This evergreen tree has a medium growth rate and spreads 15 to 25 feet in an erect pyramid. Douglas fir grows best in clay, loam, sand and moist but well-drained soils. It is most commonly used as a screen or wind break, and is occasionally used as a landscape tree or shade tree. A lot of these trees are used for Christmas trees. Also, the timber is valuable; the wood is turned into construction materials, window frames, door and paneling. Douglas fir is the second tallest tree in the nation, behind the Redwood.			★		6 - 18 in.	\$20	\$45	\$50	\$65	\$80	\$100	\$150

R. A. Howard, Courtesy of Smithsonian Institution

R. A. Howard, Courtesy of Smithsonian Institution






Species <i>(Scientific Name)</i>	Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
						10	25	50	100	250	500	1000
 Sonya Milstead  Robert H. Mohlenbrock, USDA-NRCS PLANTS Database / USDA SCS. 1989. Midwest wetland flora: Field office illustrated guide to plant species. Midwest National Technical Center, Lincoln.	★	★			6 - 14 in.	\$20	\$45	\$75	\$115	\$150	\$220	\$290
 Courtesy of USDA-NRCS  G. A. Cooper, Courtesy of Smithsonian Institution	★				8 - 14 in.	\$20	\$45	\$60	\$65	\$75	\$95	\$125

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
							10	25	50	100	250	500	1000
	Locust, Black 1-0 (Robinia pseudoacacia) Zone 4-8 ☀️🌙 Black locust reaches a mature size of 30 to 70 feet in height and 1 to 2 feet in diameter. It grows on a variety of sites, including disturbed areas, but grows best on moist loams of limestone origin. The wood is used extensively for fence posts, poles, mine timbers, split rails and decking, as well as for pulpwood and fuel. Sprouts and seedlings are important food for cottontail rabbits and deer. The flowers are an important nectar source for honey production. Black locust is a nitrogen fixer and is good for reclaiming mine sites and other disturbed lands.	★	★	★		8 - 14 in.	\$20	\$45	\$60	\$65	\$75	\$95	\$125
													






Ellen Powell, VDOP




Courtesy of Smithsonian Institution



Species (Scientific Name)	Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
						10	25	50	100	250	500	1000
 Janet Muncy, VDOF	★	★	★		Call for Size	\$20	\$45	\$75	\$115	\$160	\$220	\$290
 Janet Muncy, VDOF												
 Janet Muncy, VDOF												
Maple, Red 1-0 <i>(Acer rubrum)</i> Zone 3-9 ☀️🌑 Red maple reaches a mature size of up to 90 feet in height and 2 ½ feet in diameter. It grows on a variety of sites, from dry ridges to swamps. The light cream-colored wood is used for furniture, turnery, woodenware and paper pulp. Red maple can be tapped for syrup-making. The fruit and buds are a primary food source for gray squirrels in late winter and early spring. Birds and mice eat the seeds, and deer browse the young sprouts. Red maple is a popular shade and ornamental tree, with brilliant fall color.												
Mulberry, Red 1-0 <i>(Morus rubra)</i> Zone 5-9 ☀️🌑 Red mulberry reaches a mature size of 30 to 60 feet in height and 1 to 2 feet in diameter. Its habitat includes floodplains and low, moist slopes. The dark brown wood is light and soft, not strong, but quite durable. It was traditionally used for fencing, barrels, interior finish and agricultural tools. Produces fruit resembling a blackberry that is red when immature and turning deep purple when ripe in mid-summer. The fruit is sweet, juicy and edible and is a favorite food for squirrels, opossums, raccoons, turkeys and many songbirds.	★	★			10 - 24 in.	\$20	\$45	\$75	\$115	\$160	\$220	\$290




Gregg O'Donnell, VDOF



Species (Scientific Name)	Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
						10	25	50	100	250	500	1000
<div><p>Janet Muncy, VDOF</p><p>Janet Muncy, VDOF</p></div> <div><h3>Oak, Pin 1-0</h3><p>(<i>Quercus palustris</i>)</p><p>Zone 4-8 ☀</p><p>Pin oak reaches a mature size of 50 to 70 feet in height and 1 to 2 feet in diameter. The wood is hard and heavy, but somewhat knotty. It is used for rough lumber and firewood. The acorns are eaten by waterfowl, turkeys, jays, woodpeckers and squirrels. Pin oak is a popular landscape tree because of its fast growth, ease of transplanting, tolerance of urban stresses and good fall color. It grows along poorly drained river edges and floodplains, typically on clay soils.</p></div> <div>★</div> <div>★</div> <div>★</div> <div></div> <div>8 - 14 in.</div> <div>\$20</div> <div>\$45</div> <div>\$75</div> <div>\$115</div> <div>\$175</div> <div>\$230</div> <div>\$315</div>												
<div><p>Jim McGlone, VDOF</p><p>Warren Coburn, VDOF</p><p>Courtesy of USDA-NRCS</p></div> <div><h3>Oak, Sawtooth 1-0</h3><p>(<i>Quercus acutissima</i>)</p><p>Zone 5-9 ☀</p><p>Sawtooth oak is an attractive, large, deciduous tree, 50 feet in height or taller with a rounded, broad, pyramidal shape. New spring leaves are an attractive bright yellow-green and fall color varies from dull yellow to brown. It is a vigorous-growing tree that produces acorns at age 15 or slightly before. The acorns of sawtooth oak are large (1-inch long) and are produced in large quantities in the fall. They are quite popular with wildlife. Sawtooth oak prefers a well-drained, acid soil but will adapt to most soils except highly alkaline. Trees grow best in well-drained soil in the full sun. Irrigation helps trees become established, but once established they grow very fast without irrigation.</p></div> <div>★</div> <div>★</div> <div></div> <div></div> <div>12 - 24 in.</div> <div>\$20</div> <div>\$45</div> <div>\$75</div> <div>\$115</div> <div>\$175</div> <div>\$230</div> <div>\$315</div>												





Species (Scientific Name)	Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
						10	25	50	100	250	500	1000
<div><p>J. S. Peterson, Courtesy of Smithsonian Institution</p></div> <div>Oak, White 1-0 (<i>Quercus alba</i>) Zone 3-9 ☀</div> <div>White oak reaches a mature size of 80 to 100 feet in height and 3 to 4 feet in diameter. The white oak can grow on a wide variety of upland sites, but attains best growth on deep, well-drained loamy soils. The wood is used for lumber, barrels, furniture, tools, interior finish, flooring and fuel. The acorns are sweet and a preferred food of deer, bear, turkeys, squirrels and other wildlife. White oak makes an impressive ornamental tree for large landscapes.</div>	★	★	★		5 - 10 in.	\$20	\$45	\$75	\$115	\$175	\$230	—
<div><p>Sonya Milstead</p><p>Sonya Milstead</p></div> <div>Oak, Willow 1-0 (<i>Quercus phellos</i>) Zone 5-9 ☀</div> <div>Willow oak reaches a mature size of 50 to 80 feet in height and 1 to 2 ½ feet in diameter. Its habitat includes lowlands, river and swamp borders, and rich, sandy uplands. The wood is used for crossties, rough construction and pulpwood. The tree produces good acorn crops, making it a valuable and dependable wildlife food source. Willow oak is long lived and fast growing, and it is widely planted as a landscape tree.</div>	★	★	★		10 - 20 in.	\$20	\$45	\$75	\$115	\$175	\$230	\$315
<div><p>Courtesy of Smithsonian Institution</p><p>G. A. Cooper, Courtesy of Smithsonian Institution</p></div> <div>Persimmon 1-0 (<i>Diospyros virginiana</i>) Zone 4-9 ☀</div> <div>Persimmon reaches a mature size of 20 to 60 feet in height and 1 to 2 feet in diameter. It grows on a wide variety of sites, from sandy woods to moist river bottoms to rocky slopes. The wood is very hard and has been used for spindles, shutters, golf club heads and other items that require shock-resistance. The fruit is eaten by humans, as well as by opossums, raccoons, skunks, foxes and many songbirds.</div>	★	★	★		6 - 12 in.	\$20	\$45	\$75	\$115	\$150	\$220	\$290




Species (Scientific Name)	Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
						10	25	50	100	250	500	1000
<div></div> <div>John Campbell, VDOF</div> <div></div> <div>John Campbell, VDOF</div> <div></div> <div>Janet Muncy, VDOF</div>	★		★		6 - 12 in.	\$20	\$45	\$52	\$58	\$64	\$70	\$105


Species (Scientific Name)	Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price							
						10	25	50	100	250	500	1000	
<div></div> <div>Janet Muncy, VDOF</div> <div></div> <div>??? G. A. Cooper, Courtesy of Smithsonian Institution</div>	<div>Pine, Loblolly 2nd Generation Orchard Mix 1-0</div> <div>(Pinus taeda)</div> <div>Zone 6-9 ☀</div> <div>Loblolly pine reaches a mature size of 90 to 110 feet in height and 2 to 3 feet in diameter. It is used for lumber, paper pulp, plywood, poles, pilings and fuel. Loblolly pine is a common southern shade tree. Pine stands provide habitat for pine warbler, brown-headed nuthatch, deer, gray and fox squirrels, quail, turkey and other wildlife species. Large loblolly pines are a common nesting site for ospreys and bald eagles. Loblolly pine is the most important commercial timber tree in Virginia and the Southeast. Grows best in old fields, sandy soils where the water table is close to the surface, borders of swamps, and other imperfectly drained sites. These seedlings grow 20 percent faster than unimproved seedlings.</div> <div>* Loblolly pine is available in small quantities in the “Five-by-Five Select Pack.”</div>	★		★		8 - 10 in.	—	—	\$25	\$30	\$35	\$40	\$50
	<div>Pine, Loblolly 3rd Cycle Orchard Mix 1-0</div> <div>(Pinus taeda)</div> <div>Zone 6-9 ☀</div> <div>Loblolly pine reaches a mature size of 90 to 110 feet in height and 2 to 3 feet in diameter. It is used for lumber, paper pulp, plywood, poles, pilings and fuel. Loblolly pine is a common southern shade tree. Pine stands provide habitat for pine warbler, brown-headed nuthatch, deer, gray and fox squirrels, quail, turkey and other wildlife species. Large loblolly pines are a common nesting site for ospreys and bald eagles. Loblolly pine is the most important commercial timber tree in Virginia and the Southeast. Grows best in old fields, sandy soils where the water table is close to the surface, borders of swamps, and other imperfectly drained sites. From our newest seed orchards, these orchard mix seedlings grow 30 percent faster than unimproved seedlings.</div>	★		★		8 - 10 in.	—	—	\$35	\$40	\$45	\$50	\$60

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
							10	25	50	100	250	500	1000
 Janet Muncy, VDOF	Pine, Loblolly Premium 1-0 (Pinus taeda) Zone 6-9 ☀️ Our “premium” loblolly pine is a combination of our 3rd and 4th best producers. Growth and yield show a 35 percent increase in production over unimproved seedlings. We are a member of The Cooperative Tree Improvement Program at NC State, which started the breeding effort for loblolly pine in 1956. Through the application of traditional breeding methods used in agronomic and horticulture crops for decades, tree breeders have developed families or varieties of loblolly pine that produce 30 to 50 percent more wood per acre than what was available 40 years ago. These families are more resistant to fusiform rust disease; have better wood quality due to enhancement of straightness and disease resistance, and are widely adapted to a range of site types and forest management regimes.	★		★		8 - 10 in.	—	—	\$35	\$40	\$45	\$50	\$65
	Pine, Loblolly Elite 1-0 (Pinus taeda) Zone 6-9 ☀️ Our “elite” loblolly pine is our top-of-the line offering for the season. It is the highest producing open pollinated seedling that can be obtained for planting in Virginia. We took our top two producers and combined them into one seedlot. The Elite shows a 45 percent gain in growth and yield over unimproved seedlings. The price reflects the limited quantity available for sale. These seedlings are well worth the investment!	★		★		8 - 10 in.	—	—	\$40	\$45	\$50	\$60	\$75
 Richard A. Howard Image Collection, Courtesy of Smithsonian Institution  Janet Muncy, VDOF	Pine, Scotch 2-0 (Pinus sylvestris rhodopaea) Zone 4-7 ☀️⚡️ Scotch pine is a medium-sized tree reaching up to 90 feet tall. Typically pyramidal when young, becoming more rounded and open with age. Prefers moist, well-drained soils, but will tolerate drier sites. Used as an ornamental landscape tree for homes and public grounds. Orange, peeling bark provides visual accents. Extensively planted for Christmas trees, and provides a nesting site and winter cover for wildlife.	★		★		8 - 10 in.	\$20	\$45	\$50	\$55	\$65	\$85	\$120

Species (Scientific Name)	Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
						10	25	50	100	250	500	1000
Pine, Virginia Shortleaf 1-0 <i>(Pinus echinata)</i> Zone 6-9 ☀️🌲 Shortleaf pine reaches a mature size of 80 to 100 feet in height and 2 to 3 feet in diameter. It is used largely for interior and exterior finishing, flooring, general construction, veneers, paper pulp and poles. Shortleaf pine produces high-quality lumber. It grows best on deep, well-drained soils, but tolerates nutrient-deficient sites.			★		8 - 15 in.	\$20	\$45	\$70	\$75	\$80	\$100	\$125
Pine, Commercial Shortleaf 1-0 <i>(Pinus echinata)</i> Zone 6-9 ☀️🌲 Shortleaf pine reaches a mature size of 80 to 100 feet in height and 2 to 3 feet in diameter. It is used largely for interior and exterior finishing, flooring, general construction, veneers, paper pulp and poles. Shortleaf pine produces high-quality lumber. It grows best on deep, well-drained soils, but tolerates nutrient-deficient sites.			★		8 - 15 in.	\$20	\$45	\$65	\$70	\$75	\$95	\$115
 Sonya Milstead  Warren Coburn, VDOF Pine, Virginia 1-0 <i>(Pinus virginiana)</i> Zone 4-8 ☀️🌲 Virginia pine reaches a mature size of 50 to 80 feet in height and 12 to 14 inches in diameter. The lumber is used for rough construction but warps easily with alternate wetting and drying. The wood has a very long fiber and makes excellent paper pulp. Small songbirds eat the seeds and may roost in thick stands of young pine. Virginia pine's tolerance for poor soil makes it suitable for reclaiming strip-mined lands. Its habitat includes various well-drained soils, and it can tolerate eroded and dry soil.	★	★	★		8 - 14 in.	\$20	\$45	\$50	\$55	\$60	\$65	\$75

Species (Scientific Name)	Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
						10	25	50	100	250	500	1000
 <p>Redbud 1-0 (<i>Cercis Canadensis</i>)</p> <p>Zone 4-9 ☀️🌑</p> <p>Eastern redbud reaches a mature size of 15 to 30 feet in height and 6 to 10 inches in diameter. It grows on moist, well-drained woodlands. The wood is heavy, hard, not strong, and rich, dark brown in color. Some birds and mammals eat the seeds. Redbud is planted as an ornamental tree suitable for small landscapes.</p> <p>R. A. Seelig, Courtesy of Smithsonian Institution</p>  <p>Gregg O'Donnell, VDOF</p>	★				5 - 10 in.	\$20	\$45	\$75	\$115	\$160	\$220	\$300
 <p>Spruce, Norway 2-0 (<i>Picea abies</i>)</p> <p>Zone 3-7 ☀️🌱</p> <p>Our 2-year-old Norway spruce can grow 80 to 100 feet tall and spread 25 to 40 feet. It is best used as a specimen in a lawn area or as a wind break or screen, planted on 20-foot-centers. Also used for Christmas tree production. Rockefeller Center in New York City erects a Norway spruce each Christmas next to the skating rink and decorates it for the holiday season. Norway spruce tolerates most soils if moist and transplants easily if balled and burlapped or potted. Trees subjected to drought are much happier if they receive periodic irrigation although they tolerate drought well.</p> <p>Smithsonian Institute, USDA-NRCS PLANTS Database</p>  <p>Janet Muncy, VDOF</p>			★		6 - 10 in.	\$20	\$45	\$50	\$65	\$80	\$100	\$150

Species (Scientific Name)	Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
						10	25	50	100	250	500	1000
 <p>John Campbell, VDOF</p> <p>Spruce, Norway 3-0 (<i>Picea abies</i>)</p> <p>Zone 3-7 ☀️⬆️</p> <p>Our 3-year-old Norway spruce can grow 80 to 100 feet tall and spread 25 to 40 feet. It is best used as a specimen in a lawn area or as a wind break or screen, planted on 20-foot-centers. Used for Christmas tree production. Rockefeller Center in New York City erects a Norway spruce each Christmas next to the skating rink and decorates it for the holiday season. Norway spruce tolerates most soils if moist and transplants easily if balled and burlapped or potted. Trees subjected to drought are much happier if they receive periodic irrigation although they tolerate drought well.</p>			★		12 - 20 in.	\$20	\$45	\$65	\$90	\$120	\$160	\$200
 <p>Janet Muncy, VDOF</p>  <p>Larry Allain, USGS National Wetlands Research Center / USDA-NRCS PLANTS Database</p> <p>Sycamore 1-0 (<i>Platanus occidentalis</i>)</p> <p>Zone 4-9 ☀️</p> <p>Sycamore reaches a mature size of 80 to 100 feet in height and 3 to 4 feet in diameter, but can reach 150 feet in height and 10 feet in diameter. Its habitat includes stream banks and rich bottomlands. The wood is used for chopping blocks, furniture, interior finish, particleboard, fiberboard, paper pulp and biomass for energy production. Songbirds eat the seeds. Sycamore's distinctive bark makes it an attractive tree for large landscapes.</p>	★	★	★	★	10 - 16 in.	\$20	\$45	\$75	\$115	\$150	\$220	\$290

Species (Scientific Name)	Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
						10	25	50	100	250	500	1000
 <p>Walnut, Black 1-0 (<i>Juglans nigra</i>)</p> <p>Zone 4-9 ☀</p> <p>Black walnut reaches a mature size of 50 to 90 feet in height and 2 to 3 feet in diameter. The heartwood is heavy, hard and strong, with a rich chocolate-brown color of superior quality and value. It is prized for veneer, fine furniture, paneling, cabinetwork and gun stocks. The nut shells are ground into an abrasive cleaning agent for jet engines, filler for dynamite, a filter agent in smokestacks and a flour-like carrying agent for insecticides. Squirrels, birds and people eat the sweet, oily nuts. Its habitat includes deep, well-drained soils, and it grows best on the lower north- or east-facing slopes.</p> <p>Herman, D.E., et al. 1996. North Dakota tree handbook. USDA NRCS ND State Soil Conservation Committee; NDSU Extension and Western Area Power Administration, Bismarck.</p>	★	★	★	★	12 - 24 in.	\$20	\$45	\$75	\$115	\$175	\$230	—

Specialty Packs & Seed Mixes	Contents	Price
Fall Color Seedling Pack	Contains these species for a total of 25 Seedlings: 5 Maple, Red 1-0 10 Oak, Pin 1-0 10 Poplar, Yellow 1-0	\$50.00/25-pack
Five-By-Five Select Pack (Each species is in 5-packs.)	Select five (5) species for a total of 25 Seedlings: Ash, Green 1-0 Oak, N. Red 1-0 Oak, White 1-0 Pine, Loblolly 2nd Gen. 1-0 Pine, Scotch 2-0 Pine, VA Shortleaf 1-0 Pine, Virginia 1-0 Pine, Eastern White 2-0 Spruce, Norway 2-0	\$50.00/25-pack
Wildlife Seedling Packs	Contains these species for a total of 100 Seedlings: 5 Apple, Crab 1-0 10 Chestnut, Chinese 1-0 25 Indigobush 1-0 25 Lespedeza, Bicolor 1-0 25 Oak, Sawtooth 1-0 10 Persimmon 1-0	\$125.00/100-pack
Wildflower Garden Seed Bag	Suitable for a 10 ft. by 10 ft. area. Contains 27 different kinds of wildflowers	\$20.00/bag
Wildlife Garden Seed Bag	Suitable for a 10 ft. by 10 ft. area. Contains these species: 25% grain sorghum 25% buckwheat 23% Korean lespedeza 22% German millet 5% rape plus sunflower	\$20.00/bag
Rye Straw	Available for pick up at the Augusta Forestry Center only	\$4.50/bale

Form 30C
09/01/2010

Virginia Department of Forestry Tree Seedling Catalog Order

NAME: _____
PRINT CLEARLY - THIS IS YOUR SHIPPING LABELADDRESS: _____
STREET ADDRESS OR RURAL ROUTE AND BOX NUMBER (P.O. BOX IS NOT ACCEPTABLE)

CITY _____ STATE _____ ZIP _____

TELEPHONE: _____
HOME _____ WORK _____

E-MAIL ADDRESS: _____

REQUESTED SHIPPING DATE: _____ (We ship on Mondays, Tuesdays, and Wednesdays from January through mid-April.)

DOF USE ONLY

Order No. _____

Receipt No. _____

Region _____

County _____

QUANTITY NEEDED	DESCRIPTION (Kind of Trees, Seeds or Package)	PRICE PER UNIT	TOTAL COST
Subtotal			
Sales Tax (5% of Order Subtotal) [Tax exempt orders must complete Tax Exempt box below]			
Shipping and Handling (30% of Order Subtotal; \$15 minimum)			
Total Amount Due (Payment must be enclosed at the time of order.)			

◆ No refunds after May 1st. ◆ A \$20.00 service charge will be applied to all refunds except those caused by the nurseries' inability to deliver ordered seedlings.

◆ If seedlings do not arrive in good condition, (i.e. dry, damaged, or diseased), claims must be made by telephone or in writing within 7 days of receipt. All unsatisfactory or rejected goods must be held for our advice or disposition. It is agreed between the purchaser and the Department of Forestry that our liability will not exceed the original purchase price of the product. The Department of Forestry assumes no responsibility or liability for the planting of any tree seedlings and in the sale thereof, makes no warranties, expressed or implied, of merchantability or fitness for a particular purpose and makes no warranties regarding the survival or rate of growth of any seedlings.

☐ I have enclosed a check made payable to "State Forester".☐ I hereby authorize the Virginia Department of Forestry to charge my credit card.☐ VISA ☐ MASTERCARD

Signature: _____

Cardholder Address (if different from delivery address): _____

Credit Card No.: _____ Expiration Date: _____

Note: Credit card orders will be charged on the date of order.

THIS BOX USED FOR TAX EXEMPT LANDOWNERS ONLY

I agree that I qualify for the agricultural exemption from Virginia Retail Sales and Use Tax on Seedlings purchased from the Virginia Department of Forestry as the trees are to be planted for future commercial production of timber; or that I otherwise qualify for exemption from Virginia Retail Sales and Use Tax due to organization affiliation.

SIGNATURE _____

TAX EXEMPT NUMBER _____

RETURN ORDER TO:

AUGUSTA FORESTRY CENTER
P.O. Box 160, Crimora, VA 24431Phone: (540)363-7000
Fax (540)363-5055

- A \$20 service charge will be applied to all refunds except those caused by the nurseries' inability to deliver ordered seedlings.
- Full refund will be made, without penalty, in the event the Department is unable to make delivery for any reason.
- If seedlings do not arrive in good condition, (i.e. dry, damaged, or diseased), claims must be made by telephone or in writing within 7 days of receipt. All unsatisfactory or rejected goods must be held for our advice or disposition.
- It is agreed between the purchaser and the Department of Forestry that our liability will not exceed the original purchase price of the product excluding shipping costs.
- The Department of Forestry assumes no responsibility or liability for the planting of any tree seedlings and in the sale thereof, makes no warranties, expressed or implied, of merchantability or fitness for a particular purpose and makes no warranties regarding the survival or rate of growth of any seedlings.
- No refunds after May 1st.
- Prices subject to change without notice.

Title 10, Subtitle 2, Chapter 11, Section 10.1-1114 of the *Code of Virginia*. As a direct means of re-establishing forests on lands in Virginia, the Department of Forestry, hereafter referred to as the Department, grows tree seedlings for sale at cost to private and public landowners for foresting lands in Virginia.

[illegible]

For more information on how the Virginia Department of Forestry can help you, call your local VDOF office or visit the agency website at www.dof.virginia.gov.



VDOF P00102; 10/2010